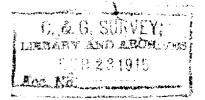


36688







Diag. Cht. No. 1210-2

COAST AND GEODETIC SURVEY Office Superintendent. State: Mark DESCRIPTIVE REPORT. Sheet No. 3 le le 8 LOCALITY: DAY AND SHEET PARTY: OHIEF OF PARTY:	Department of Commerce and Cabor
State: Mars DESCRIPTIVE REPORT. Sheet No. 3 le le 8 LOCALITY: Buggards Bag 1914 CHIEF OF PARTY:	COAST AND GEODETIC SURVEY
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11-4645	11-4645 J. J. Lawley

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY
O.H.Tittmann, Superintendent

MASSAGHUSETTS

Myd. 3668.

ENTRANCE TO BUZZARDS BAY

Survey with Wire Drag

June 27 ---- September 29
1914

Jean H. Hawley, Assit. Chief of Party

WIRE DRAG PARTY NO. 2.

OFFICERS

J.H.Hawley, Assistant	 Chief of Party.
Ernest W. Eickelberg, Aid	 Executive Officer.
Harold H.Griffin, D.O.: S.Davis Winship, D.O.:	In charge end launch.
Spencer Danby, D.O.: William K.Doolittle, Aid:	 Observing.
Leonard H. Zeman, D.O.	 In charge sounding tender.

STATISTICS
Hydrographic Sheet No. 3668.

DAY	DATE	I	LENGTH	MILES	POSITIONS	SOUNDINGS
'			OF	statute		
		ļ	DRAG			
A	June	25	2400 ft.	2.5	12	
В	11	26	2400	5.8	47	
C	Ħ	29	2400	4.0	29	7
D	July	1	3 000	0.25	4	2 2 3
E	u	3	3000	2.25	20	2
F	LI LI	6	3000	1.5	15	3
G	Ħ	13	3000	4.25	42	4
Н	ŧŧ	24	3 000	1.25	13	4
J	11	27	3000	5.75	46	3
K	11	29	3000	0.50	8	1
L	0	31	3000	4.50	59	. 1
M	Aug.	4	3000		2	. 7
N	11	6	300 0	3.7 5	37	· 3
0	u	10		3.0	21	7
P	11	13		8.50	60	1 6
Q	#	14		2.50	27	0
R	n	17		2.0	21	
S	12	25		4.0	41	2 1 1
T	11	26		6.25	60	7
U	11	27		7.75	59	<u></u>
Δ	.tr	28		7.50	63	3 1
W	и	31		4.5	40	
X	Sept		3000	0.5	4 34	
Y	11	4	3000	5.5	3 4 37	1
Z	11	. 5	4000	6.0	52	4
A.		9	3000	5.75	38	
B'		10	3000	5.75	5 4	1
C		11	4000	8.5 6.25	5 4 50	
D,	ł	12	3000	4.75	42	6
E		17	3000	5.25	49	4
F		18	3000 3000	3.25	26	i
G		21	l .	4.25	42	ī
H		22	3000 3000	5.25	41	ī
J		28 29	2100	1.75	ii	
K		49	2100	7.10		

SUMMARY

NO.	MILES	S(stati	ite)	-	145.08
	POSI:		Ū		1206
NO.	SOUN	DINGS			64
ARE	A(sa.	stat.	miles))	47.5

TTDES

WESTPORT HARBOR

June 19 -- Sept. 29, 1914.

	Staff Reading
Mean Low Water	1.61 feet
Lowest Water Observed	1.10 "
Highest Water Observed	5.95 "

The usual methods for wire drag work were followed on this sheet.

The minimum length of drag used was 2100 feet and the maximum 4000 feet.

The drag depth was frequently tested and gave values for lift somewhat less than those commonly used.

The work was plotted on the sheet in the field by members of the party.

Numerous changes in charted depths were found and reported.

The positions of all soundings are inked on the sheet and the soundings entered in pencil.

Respectfully submitted,

Assistant C.& G.Survey,

Chief of Party.

HYDROGRAPHIC SHEETS 3668 & 3668a.

Approaches to Buzzards Bay, Massachusetts by Assistant J. H. Hawley in 1914.

TIDES.

plane of reference on staff	
Mean low water, or plane of reference on state	1.6
Lowest tide observed " "	1.1
Highest " " "	6.0
Mean range of tide	3.1

Myd = 3668.

The drag esvered an over at the Entrance to Burgards Ray, mass.

The work was plotted in the field, verified in the office and finally a tracing made, which shows the max eff. depth in feet, to which the partial areas have been dragged.

Of few inaccuracies in protting were noticed, of which the following may be mentioned:

The positions of the Soundings VN & VN were interchanged. Day"A". All distances originally correctly computed were erroneasly changed by the checker, who evidently, used a length of tow line of 60 % instead of 61%, as recorded.

O number of positions were not accurately plotted, e.g..
Ve, VF, VG, VH'.

Day P. at Vp F to 4 were changed to 33' and the tourline changed to 61 %. These sections remained at a depth over 30 ft. up to position 23 P, and to be consistent the tow line used should have remained 61 %, but at VF in computing distances a 62 % tourline was used.

Day"W. Ot Vw Sections 2 to 6 were set at 32'; platted "I't."9".

From Vw to Vw the "F'end positions were numbered in place.

of the "N'end.

at VW "N" to F" were changed to 43' Plotted "F" to N. This error is probably due to the wrong numbering of the ends of the drag. at 43'. Plotted "N" to "F" - 37'.

Shoal 2F (26ft.) was passed by a drop at 28'
Shoals 3A'. 4A' (37'aul 37') were passed by a drag at
HI feet.

Ot 22 j' a 20' drag struck a 22' spot. The chief of the party reports that the tenders were unable to locate less than the 22' sounded at VH'. By recommendation of the G. I. Flower this shoal is to be charted 20 feet. A few splits have been left open and are indicated on the tracing by arrows.

The records throughout the work were kegt in good shape.

J.B. Sh. Keon

June 22- (5.



36688

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Hyd. 36682

DEPARTMENT OF COMMERCE
U.S.COAST AND GEODETIC SURVEY
O.H.Tittmann, Superintendent

MASSACHUSETTS

ENTRANCE TO BUZZARDS BAY

Browns Ledges

Survey with Wire Drag

September 15 -16

1914

Jean H. Hawley, Ass't., Chief of Party.

WIRE DRAG PARTY NO. 2

OFFICERS

J. H. Hawley, Assistant		Chief of Party.
Ernest W. Eickelberg, Aid	-	Executive Officer.
S. Davis Winship, D.O.		In charge, end launch.
Spencer Danby, D.O.		Observing.
Leonard H. Zeman. D.O.		In charge, sounding tender.

STATISTICS

Hydrographic Sheet No. 3668a.

DAY	DATE	LENGTH OF DRAG	MILES statute	POSITIONS	SOUNDINGS
A	Sept 15	3300 ft.	6.5	50	6
В	" 16	3300 ft.	7.75	45	_

SUMMARY

MILES (statute)	14.25
POSITIONS	\$ 5
SOUNDINGS	<u>6</u>
AREA (sq.stat.miles)	5

DESCRIPTIVE REPORT WIRE DRAG SHEET 3668 A.

The area shown dragged on this sheet covers the approach to Buzzards Bay in the vicinity of Browns Ledge. The southern and western limits connect with the drag-work shown on Field Sheet #2. The northern limit is represented by latitude 41° 25'; the eastern limit by longitude 71° 03' W., and connects with drag work done by Mr.J.H. Hawley in 1914. The southeastern part shown covers Browns Ledge and was done by Mr.J.H.Hawley during the season of 1914; this work is represented by the A & B days drawn in blue ink.

The attempt was made to drag between depths of 50 & 60 feet north of latitude 41° 23'; south of that latitude the drag was set at depths between 60 & 70 feet. Mr. Hawley in dragging over Browns Ledge used depths varying between 30 & 40 feet.

The signals used in the control of this work were based on triangulation done in previous years and also by this party. Signals Doc. Hit, & Cor were located by this party. Signal Hen was located by sextant angles taken by this party.

A split occurs at about latitude 41° 23' 50" and longitude 71° 08' 50". There is a question however as to whether this split was not covered on F day. Shortly after position 18 F the far buoy fouled on the 38 ft. pinnacle rock plotted at sounding position 1 N soundings in this vicinity on this day failed to reveal any shoal spots and the far buoy was accordingly cleared and the drag-work continued. There is but slight doubt but that at position 20 F the drag was curved so as to extend to the west of the split and to the east of the pinnacle rock; in such a case as the drag proceeded east ward, the split was covered. However due to the fact that there is an element of uncertainty here, it has been thought hest to consider this as a split. Another split occurs at about latitude 41° 23' 40" and longitude 71° 03' 50". This was due to incorrect plotting of the surrounding positions on the boat sheet, as that sheet shows that this spot had been covered satisfactorily.

A 57 foot shoal spot was found at about latitude 41° 24' 26" and longitude 71° 09° 19", the chart shows 66 feet in this vicinity.

A 53 foot shoal was located at latitude 41° 23' 20", longitude 71° 09' 38" where the chart shows 76 feet.

A 53 foot rock was found at about latitude 41° 23' 10", longitude 71° 09' 50" where the chart shows 66 feet.

At about latitude 41° 24° 05°, longitude 71° 08° 56° a sounding of 38 feet brought to light a pinnacle rock, measuring, as near as could be judged 10 feet by 20 feet on top, and surrounded on all sides by depths of 78 feet. Various attempts were made to drag over this spot, each time without success and no sounding taken in this vicinity showed less than the depth at which the drag was set. It was only after much perseverence and patience on the part of the officers

in charge of the sounding launch that the rock was finally discovered.

At about latitude 41° 23° 55", longitude 71° 07' 24" a ledge of least depth of 54 feet was discovered where the chart shows 72 feet.

At about longitude 71° 07' 22" and extending from latitude 41° 24' 10" to 41° 24' 17" a ledge was found with a minimum depth of 55 feet. The chart shows 66 feet in this vicinity.

At about latitude 41° 35' 55", longitude 71° 04' 30" a boulder group of 51 feet least depth was found where 66 feet was charted.

At about longitude 71° 02' 56" and latitude 41° 24' 36" a sounding of 41 feet was obtained where 66 feet was charted. \int

At latitude 41° 25' 08", longitude 71° 08' 19" a shoal of least depth 50 feet rocky bottom was found where 54 feet was charted.

The tidal reduction for this work was obtained from observations made on a tide staff erected on the dock at Sakonnet Harbor.

No attempts were made to determine the strength and the direction of the currents in this area due to lack of time to spare from drag work.

Respectfully submitted

(Signed) H. W. Hemple

Deck Officer.

Approved

Jr. H. & G. Engineer, Chief of Party.

Department of Commerce and Cabor COAST AND GEODETIC SURVEY
E. Lester Jones Superintendent.
State: R.I. & Mass.
DESCRIPTIVE REPORT.
Wire Drag Hydrographic Sheet No. 3668a
LOCALITY:
Approach to Buzzards Bay
Scale 1 to 30,000
1917•
CHIEF OF PARTY:
R.P.Strough

Department of Commerce. 742.3668 a Coast & Scodetic Survey. E. Lester Jones, Superintendent. Rhode Island & Massachusetts approach to Buzzardo Bay a Descriptive Report to accompany Wine Drag Meet 3668 A Deale 1 to 30,000 19 17

Wire Drag Party #2

D. P. Strough Jr. H. & G. Engineer, Chief of Party.

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. 3668.9. Field No.

~~	rveyea c	y J	7. Kr K-	7 16 C.1		J																		==
Day	D	ATE	Signaled angles com- pared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Commared with chart
7	May	4	1	~	-	L	<u>, </u>	~	v	~	1	/	1		~	V	~	/	V	1	V	~	V	
3	J. Hay	8	~	_	V	/	/	/	1	/	1	V	V		~	V	1		V	V	V	1	V	}
?	_ '	21	1	/	1	~	1	/	1	/	,	ν 	1	V	V	V	V	/	✓	V	V	<u> </u>	1	ļ
2	June	29	1/	/	~	/	~	•	~		~		V		1	V	V	1	V	V	1	/	1	-
	Very	12	/	1	1	V	V	V	✓	V	✓	/	V	V	1	V	V	<u> </u>	V	/	Y	/	V	+
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 7	"	14	V	1	1	1	1	~	L	1	v	٢	v	1	V	1	V	Y	V	\ <u>\</u>	<u> </u>	<u> </u>	7	+
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			1	1	1	-	1	1	V	1	V	V	V	V	1	V	V	1	V	1	1	/	1	-
<u> </u>		25	1	V	-	1	V	1	1	1	1		V	V	10	V	\ V	V	V	/	<u> </u>	/	/	
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Descriptive Repart Theet 3668A

The area shown dragged on this sheet covers the approach to Buygards Bay in the vicinity of Browns Redge. The pouttern and western limits connect voith the drag-work hours on Field Pheet #2. The northern limit is represented by latitude 41° 25 the northern limit by longitude 71° 03' W. The portheasting part chown covers Browns Redge and was done by Mr. It Hawley during the season of 1914; this work is represented by the AZ B days drawn in

The attempt was made to drag tetween depths of 50 x 60 feet north of earthed 41°23; Jours of that earthed the drag was set at depths between 60 x 70 feet Mrs. Hawley in dragging over Browns Ledge used depths ranging litered 30 x 40 feet.

the signals used in the control of this work were based on triangulation done in previous years and also by this party. Signals Doc 1tit, the Cor were located by this party, signal Hen was breated by septant angles taken by this party.

a split occurs at about latitude 41-23-50"
and longitude 71-08-50" There is a guestin hower as to whether this oplit was not covered on F day. chartly after prosition 18 F. The far busy fourled on the 38 pt frum acts rock plotted at some dig position IN some days in this vicinity on this day failed to reveal any chord opots and the this was accordingly cleared and the drag was curred to but that at prosition 20 F they drag was curred to as to extend to the west of the oplit and to the east of the primacle rock; in such a case as the drag proceeded fact that there is an element of uncertainty here, it has been thought test to consider this as a split.

another oplit occurs at about latitude 41°-23'-40" and longitude 71°-03'-50". This was due to incorrect plotting of the ourrounding positions on the boat sheet as that sheet chows that this spot had been covered satisfactarily.

He for the first of the state o

eatitude 41°- x4'-x6" and longitude 71°-09'-19! where the chart shows 66 feet in this vicinity.

253 fort shoul was located at latitude 41°23'-20", longitude 71°-09'-38" where the chartolono 76 fet

a 53 foot rock was foundat about latitude 41°-23'-10", longitude 71°-09'-50" when the chart shows 66 feet.

a sounding of 38 feet brought is light a piemach rock, measuring as rear as could be judged to feet by 20 feet on top, and our owneded on all sides by depths of 78 feet. Various attempts were made to drag own this opot, each twing without one ceas and no communing taken in this vicinity chancel east then the depth at which the drag was set. It was only after much perseverance and patience on the part of the offices in charge of the counding launch that the rock was finally discovered.

at about latitude 41°-23'-55" longetude 71°-07'-14" a ledge of least depth of 54 feet was discovered when the siant obows to jeet.

at about largitude 710-07-22" and extending from Catitudes 410-24'-10" to 410-24'-17" a ledge was from with a minimum depth of 55 feet. The chart shows 66 feet in this vicinity

at nont entitled 41°- 23'- 55" longitude 71-04'.
30" a boulder group of 51 feet least depth was found
where 66 feet was charted

at about longitude 71'-02'-16" and letitude 41°-14'- 36" a sounding of 41 feet was obtained where 66 peet was charted

at latitude 41°-25'-08"- longitude 71°-08-19" a shool of least depth 50 feet workey bottom wasfound where 54 pert wascharted

The tidal reduction for this work was votained from observations made on a tide staff exceled on the dock at pakement starbon

the attempts were made to determine the strength and the direction of the currents in this area due to lack of this to seek from drag work

Respectfully submitted H. W. Keurple_ Deck officer

approved

Jo. H. & G. Engineer, thief of Party.

Da		atisti			
way	plate	argu a	Miles	Positions	Someting
A		5000	0,5	//	
\mathcal{B}	may 8, 1917	5000	6.6	46	0
C	May 21,1917	6000	3.0	27	2_
\mathcal{D}_{i}	June 29,1917	5000	1.2	8	2_
E	July 12, 1917	6000	5.0	33	2
F	ang. 6, 1917	5000	3.8	31	2_
G	Aug 14, 1917	5000	4.6	34	2
H	ang. 15, 1917	6000	2,5	19	/
J	aug 18,1917	5500	4.1	36	/
K	ang. 25,1917	5000	3.6	25	O ^
	avg 27,1917		4.5	37	0
M	aug. 28/917	5000	1.0	7	0
\mathcal{N}	aug. >9,1917	4000	6.2	36	/
0	Pept. 5, 1917	4000	6.5	38	/ ·
٠,		Total	53.1	38 8	15
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DEPARTMENT OF COMMERCE

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WASHINGTON

Flace with descriptive report vey of hydrographic sheet No. 3668

Drawing Section.

Division of Hydrography and Topography: Hun

Division of Charts:

Tidal reductions have been approved in 4 volumes of Soundings and Wire-Drag record for

HYDROGRAPHIC SHEET 3668a

Approaches to Narragansett Bay, R.I. R. P. Strough, 1917

Plane of reference is Mean low water, reading

0.7 ft.on tide staff at Sakonnet Polat, R.I.

Acting Chief, Section of Tides and Currents.

L. P. Shidy

STATISTICS HYDROGRAPHIC SHEET 3668 A.

Day	Date :	Length of Drag	Miles Statute	Positions	Soundings
A	: May 4,1917:	5000	0.5	: : 11	: : 1 :
В	: May 8,1917:	5000	: : 6.6 :	: : 46 :	: : 0
С	: May 21,1917:	6000.	: : 3.0	: : 27	: : 2 :
D	: June 29,1917:	5000	: : 1.2	: : 8 :	: : 2 :
E	: July 12,1917	6000	: : 5.0	: : 33	: : 2 :
F	: Aug. 6,1917	5000	: : 3.8 :	: : 31	: : 2 :
G	: Aug. 14,1917	5000	: : 4.6 :	: : 34 :	: : 2 :
н	: ! Aug. 15,1917	: 6000 :	: : 2.5	: : 19	: 1 :
J	: Aug. 18,1917	: 5500 :	: : 4.1	: : 36 :	: : 1
K	: Aug. 25,1917	: : 5000	: : 3.6 :	: : 25 :	: : 0
L	: Aug. 27,1917	: : 5000	: 4. 5	: : 37	: 0
M	: Aug. 28,1917	: : 5000	: 1.0	; ; 7	: 0
N	: Aug. 29,1917	: : 4000	: : 6.2	: 36	: 1
0	: Sept. 5,1917	: : 4 000	: 6.5	38	1
	:	: Total	: 53.1	: 388	: 15

Venfulin Report of Hoge The writer serified only that work done in 1917 by P. P. Strayto. The 1914 work had previously few our-The plotting was only fair a few of the gositions were found in error and corrected. a mi of the sight deagrams were plotted incornetty and small manusaires found throughtant in these Those mostly tadly off were nepholled. The area containing the sounding 1A, 57 ft. Cultile 14024'30, by 71.30'30", areading & the when pet at 53 ft, nor late on the same sony when set at a depth of 35 ft. as 62 warness the pounding oblained, of being the depth at which drag was set the may still to less water at this spot. The soundings for f" day, bust sight 55ft is quelionable. With the drag pet at 53 on "I" day it went aground; and with a settling of soft an in. it again went aground. In mether of these last los cases were soundings obtained. The drag however tale on "N" day passed over this apotures a selling of 50 fb. It seems Therefore that the sounding should be plotted as 50 walnut of

The words were well kept Throughtut.

In two places as inducated on the tracing their was no perceivable overlap of this work with the 1914. Four splits in this survey are also indicated Closs Bace,

Regional.

ADDRESS THE DIRECTOR U.S. COAST AND GEODETIC SURVEY

) ::

AND REFER TO NO. 4-DRM

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY

WASHINGTON

June 11, 1923.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 36682.

Surveyed in 1914 and 1917.

Chief of Party, J. H. Hawley; R. P. Strough (1917)

Surveyed by J. H. Hawley; R. P. Strough.

Protracted by Field Party.

Inked by J. B. Shklarin and A. Baer (1917)

Verified and Area and Depth Sheet by J. B. Shklarin and A. Baer (1917).

- 1. The depth and extent of dragging satisfy the specific instructions.
- 2. The least water was found on all shoals discovered except as follows: The 57-foot spot shown on Chart 1210 about 2.3 miles south of Elisha Ledge and on smooth sheet at position 11A. The drag grounded at this depth but the actual sounding obtained was 62 feet. On page 2, vol. 1 of the sounding records the Chief of Party notes that as the drag caught at 57 feet and cleared at 56 feet, the sounding plotted should be 57 feet. The smooth plotting, however, does not reveal a 56-foot drag as having cleared this spot. The adjoining sheet 4006 does not overlap this spot sufficiently. Therefore, neither the least water nor the clearance depth over this shoal are known.

The sounding of 55 feet on J day mentioned in the verification report to be changed to 50 feet, should stand. When the drag first grounded at 50 feet it was due to a dropping of one of the uprights so that at the second passing over, the spot was cleared. It is therefore unnecessary to change the sounding to 50 feet.

The 50-foot sounding shown at the edge of the drag near the north-western portion of the sheet was covered on 3668 by a 42-foot drag.

3. The overlaps are sufficient except as shown on the Area and Depth sheet. The overlaps between this sheet and the adjoining sheets 4005 and 4006 are insufficient in some places.

W. D. 3668 - 2.

- 4. There are a number of splits shown on the Area and Depth sheet. The three close together near the northeastern corner of the sheet have been covered on sheet 3668. The two others are of small extent and lie in about 60 and 70 feet of water. The splits caused by insufficient overlap between this sheet and the adjoining sheets are not shown.
- 5. Further dragging should be done if work is done again in this vicinity, to cover the 57-foot spot mentioned in paragraph 2, and when this is done the splits mentioned in paragraph 4 should be covered.
- 6. Attention is called to the erroneous method of showing the bight of a drag when the drag grounded. Care should be taken never to include the shoal within the drag when the sounding obtained is less than the drag depth.
- 7. Reviewed by A. L. Shalowitz, June, 1923.